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The path which led from the village to Nariatan, the northwestern garden clearing, passed through the previously mentioned ceremonial clearing north of the village. A short distance beyond this point, a branch took off to the east and led to Waniwanitan, the northeastern and second largest clearing, which contained nine garden plots totaling approximately five acres. Each garden was tilled by a different man, but two men had plots in both Nariatan and Waniwanitan. The size of the average garden was one-half acre. There was no newly cleared land, and, in contrast to Nariatan which was still yielding, nearly all of the crop (mostly manioc) had either died or been harvested. Quain noticed that the soil in Nariatan had a gray tone, whereas that of Waniwanitan was reddish in hue. This difference in color was due to the ashes deposited by the more recent burning over of the former site.

Nariatan was a newer garden than Waniwanitan, and the former was planted to a variety of crops while the latter was nearly all in manioc. This is indicative of the common tropical forest slash and burn system whereby second year gardens are used only for manioc growing, and new areas in which the soil is still comparatively rich are used for other vegetables in addition to manioc. The Trumaí are unique, however, in that the garden clearing was divided into individually owned plots. Smaller individual gardens or large gardens cleared and cultivated collectively are the general rule in the rain forests of South America.

The three other clearings were small, and each contained one garden plot. One was one-quarter acre in size, while the other two each comprised one-half acre. These small gardens were connected with the village by separate paths and were closer to it than the two larger clearings. Anariatan, Nariatan and Waniwanitan were named after old village sites, but Quain knew of no abandoned locations from which the names Tan Toreake and Tandatake could have been derived.

Horticultural Techniques

It is difficult to assess the relative importance of horticulture, fishing and gathering in the subsistence economy of the Trumaí. At different times of the year each made the major contribution to the diet. Most garden products became available at about the middle of the rainy season, but manioc was dug up when needed throughout the year. Fish and manioc were staples the year-round, although fishing was poorer during the rains. Each was more important in the total diet than were the products of gathering. However, the subsistence of the Trumaí at certain times of the year, especially in the early part of the rainy season, would have been seriously threatened without the wild foods.

The agricultural cycle started in the early part of the dry season when the clearings needed for the next rainy season's gardens were made.

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Each man planted his garden without male assistance. However, when planting vegetables other than manioc, he was often aided by his wife or wives. During the whole Trumaí planting season Quain observed only one instance of cooperative labor in manioc planting. This occurred in the garden of Uluku, a Kamayurá, who had cleared a plot in the Trumaí gardens but had not returned in time to plant it. The work was initiated by the Trumaí chief, as this was an obligation of the village to an outsider. However, the men largely ignored his call and, of those who responded, most were co-residents of the chief.

Fishing Techniques

A variety of fish were caught and eaten by the Trumaí. The exact species were not recorded by Quain, but those in Oberg's partial list are also found in other tributaries of the Amazon.[1] A small fish called *kute* by the Trumaí was caught in great quantities during Quain's visit. Fish figured importantly in the diet throughout the year, but they were not as easily caught during the rainy season when the rivers overflowed into the adjacent forest. Fish were taken by hook and line, bow and arrow, poisoning, traps, nets and weirs.

Shooting with the bow and arrow was the most important single method. The fisherman stood in the bow of his bark canoe with bow and arrow poised while his helper paddled slowly in the stern. When a fish was sighted the arrow usually found its mark with surprising accuracy. Insofar as is known, only hooks and lines obtained from the whites by trade or gift were used. Quain found a great demand for them, and he gave many to the Trumaí and other groups.

Two kinds of poison were used to drug fish in the lagoons. The more important was made from the shredded bark of the *tsuesi* tree and was effective only upon the small *kute* fish. The other was made from the ripe fruit of the *fi'i* tree, the bark of which was used in the washing of the body after ceremonial scarification.[2]

Fish traps were baited and set out in the lagoon. These were basket containers, long and rounded in shape. An open-ended basket cone, through which the fish swam, was set in the mouth. Once inside, the fish could not find their way out through the small end of the cone, which was pointed towards the inside of the trap. According to one informant, the Mehinaku could make fish traps, but not the Trumaí. Quain, however, found that at least three Trumaí men made traps,

[1] *Ibid.* pp. 25–26.

[2] The exact species of these trees are not known. Oberg (1953, pp. 26–27) refers to the use of *timbó* in a general sense only. *Timbó* commonly refers to the root of a small shrub and not to the above-mentioned drugs. Von den Steinen (1897) makes no reference to fish drugs.

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often gathered together, and at times all of the women of a house would work together in *piquí* collecting. Parties of boys and men sometimes picked up the fruit, and a man often went gathering with his wife to protect her from possible enemies, especially if there had been recent threats or omens. He took his bow and arrows, and frequently did not help in carrying the fruit back to the village. The *piquí* was brought to the village in basket containers, and then made into a variety of dishes.

Guava (*uuruucaru*) grows wild in the forest, ripening a short time before *piquí* does, but extending into the season of the latter. Quain believed it to be a valuable vitamin C supplement to the diet, but it was a far less important food than *piquí*. Men participated little in guava collecting, although they accompanied their wives for sociability and protection. Quain described these connubial gathering expeditions as being largely pleasant jaunts through the wood. Children often went out for the fruit, which they brought back to the village strung on straws.

The water lily from which salt was made was another important item gathered during the period of Quain's residence among the Trumaí. The water lilies were collected in the Trumaí lagoon, and the complete salt-making process was carried on there. Each Trumaí built a rack over the waters of the lagoon. The lilies were pulled up, spread out on the rack to dry, and later burned. The ashes were sifted to obtain the salt. Quain did not mention any women's salt racks, but the women prepared their own supply of salt, too. Quain saw salt-making only in the early part of September, although it is possible that it occurred prior to this time as well. However, salt was not made after the middle of September, due to the rains and the exigencies of planting.

Ants were eaten by the Trumaí and, according to an informant, by all groups in the area. A little boy demonstrated the correct way to consume them when he joyously brought in a fat one, plucked off its abdomen and swallowed it. Quain was told that later in the season the women and children would go out and collect them in large quantities. Other insects were in heavy demand for feeding the harpy eagle and other pet birds. Crickets were considered especially good for this purpose, and the boys made great sport of shooting these insects with their miniature bows and arrows.

A few other wild foods were eaten, but these were relatively insignificant. Among them was the fruit of the *awa'o* palm. Another fruit called *iamux*, resembling the crabapple in taste and superficial appearance, had a gelatinous interior. An unnamed plant is described by Quain as resembling grass, but having a quality like algae. It was eaten only in times of a manioc shortage. *Kamu'u* is a parasitic plant that looks and tastes like the date. The *atoh* is a berry that tastes like the chokecherry.

Fiſt'a and *tucusi*, the fish poisons, were gathered in the locale. The gathering and preparation of *tucusi* boughs was a cooperative venture.

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Older boys and men went into the forest to cut down the trees and bring the boughs back to the village. The men then took turns in pounding the boughs into coarse fiber with the blunt end of an axe. Even men who did not participate in the gathering of the boughs helped in their reduction into fiber.

The group nature of the work is understandable in view of the communal labor and benefits involved in fish poisoning. Once the boughs were reduced, the fibers were cut into sheaves of about two and one-half feet in length. These sheaves were used to poison the water. Interestingly, both bark and wood were pounded up together, although, according to Quain, only the bark is poisonous.

The *buriti* palm supplied two raw materials, *isinke* and *isinke hut'*. *Isinke* was obtained from the heart of the young spike of the growing tip of the palm. The top was separated to give access to the heart, and long fibers were pulled out, which were then hung in the interior of the house to dry. When dry they resembled a heavy hemp, and were used to make cord. *Isinke hut'* is the leaf of the *buriti*, which was used in basketry.

Hunting

Hunting was not important at any time during Quain's stay. Tapir, peccary, deer, monkey, jaguar, squirrel and paca, a large rodent, are among the animals mentioned by Quain as being found in the vicinity, but only the monkey and paca were eaten. Birds were also eaten, and their feathers were used for ornamentation. Terrapin were caught by hand, either by creeping up on them or by swimming close to them under water and grabbing them by the shell. All other game was shot with the bow and arrow, except for the capybara, called *tsimo* by the Trumaí. Canoeists speared the swimming animals. The spear was used at no other time in hunting or fishing, although the Yaulapiti speared fish.

Quain saw no organized hunting parties. One or two men sometimes set out with the express intention of hunting, but most animals were shot while on fishing or gathering expeditions. The Trumaí did not rely on meat, nor did they show a craving for it. Hunting seemed to be more a pastime and sport than a subsistence activity. When Quain hunted with the Trumaí he noticed that they wanted him to kill birds more for their feathers than for their meat. They also wanted him to kill several entirely worthless birds because, as two of the men expressed it, they wanted "to see it."

Foods

The horticulture, fishing and gathering economy of the Trumaí gave them a fair variety and adequate quantity of food during most of the year, barring crop failure. The Trumaí, however, had a considerably

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was working on the roof, the other thatched the wall facing the forest, and the house was subsequently occupied while work was still proceeding on that wall. The wall toward the village was temporarily hung with cloth drapes for privacy, although for purposes of protection from enemies the opposite side was thatched first. 342

Additional thatch was placed on the house at the beginning of the rainy season. At that time light poles were bound to the frame for greater support. The chief's house began to sag from the weight of the thatch, and braces had to be put under the ridge pole. Two posts, as heavy as the center posts, were crossed just below the ridge pole and bound together. A few men got behind each post and pushed so that the poles would assume a more nearly vertical position and give firmer support to the ridge poles. When this had been accomplished, the bases of the posts were set in holes. 342 335

Quain had the opportunity to observe two houses being constructed: his own and a fifth dwelling being built by two Trumaí men. His own small house took one week to build. The work started off with a great burst of effort, and in four hours all the wall posts, center posts and the ridge pole were in place. However, every day thereafter progress became increasingly slower. 123 342 461

House styles and construction were not rigidly conventionalized. The Trumaí helped build a house for the missionaries, Mr. and Mrs. Thomas Young, and they thought that Quain, being a *karaíba* (white man), would like one such as the Youngs had designed for themselves. When they were half finished with the frame, Quain realized what was happening, and asked for a haystack house like theirs. The revision was made easily and the result was a hybrid. This, added to the fact that two of the houses in the village were much larger than the other two, indicated a certain flexibility and willingness to imitate. The Kamayurá classified the different posts and poles that went into house building, but the Trumaí had only very broad terms for the corresponding parts. 123 341 [197] [192] [335]

The heavy work of raising the ridge pole, stepping in braces, and carrying and inserting center posts was done cooperatively. These joint labors, although brief and infrequent, made for a festive occasion and gave rise to laughter and gaiety, an unusual thing among the men. With the exception of operations requiring the combined efforts of more men, the house was built by the males who were to occupy it. Women took no part in the building. Yanahi and Mayuva, who were building a new house, shared the work unequally, Yanahi doing the larger part. They did not always work at the same time, and, when they did, they worked on separate sections of the house. 335 342 476 [460]

Quain's house was built cooperatively because he was an outsider, and it was the obligation of the whole community to accommodate him. 123 342 476 574

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The situation was comparable to the previously mentioned communal planting of the garden of the Kamayurá, Uluku.

Canoes

The standard bark canoe of the upper Xingú was made and used by the Trumaí.[4] Construction was simple and much less time was required to complete it than the typical dugout canoe of the tropical forest. A long, rectangular piece of bark was cut from the *jatobá* tree by men standing on platforms. The bark was then heated over a fire to soften it. The sides were bent up, and the top end of the bark, which narrowed slightly, was made into the bow by bending it upwards. The center of the stern was bent inwards, allowing the whole stern to be well above the water. Leaks were mended with patches of river mud or clay. Propulsion was by paddle, although occasionally poles were used.

There was also one small dugout in the village which belonged to Aloari, Quain's cook and helper. Aloari had been a Yuruna captive, and it was undoubtedly during this experience that he had learned to make this type craft. He also had a bark canoe and was the only Trumaí to own two canoes.

Basketry

The Trumaí men manufactured baskets that were variously shaped and served several purposes. In general, the Trumaí were less skilled in this art than their upper Xingú neighbors. Among the baskets described by Quain was a deep, round tray made of *buriti* fiber and another which was used to store manioc flour and, when equipped with shoulder and forehead tumplines, to carry loads. The latter was an openwork container made of bark strips. A smaller basket of this type was made of *buriti* fibers. The manioc sieve, or *tuafi*, was made of stiff *buriti* fronds and was also used to store small articles. It was made by the women. The women also made a bark cloth bag known as the *idesnit*, a term that, in addition, designated the female pubic covering.

All of the baskets and similar containers described by Quain were made by other groups of the area, but the art of manufacturing certain varieties was known to only a few Trumaí. Some baskets were obtained in trade.

Textiles

All work in cotton was the exclusive province of the women. Hammocks of both twined and woven types were made. The loom consisted of two upright posts between which a warp of *buriti* fiber was extended.

[4] Cf. von den Steinen 1897, pp. 322-23.
[i.e. building Quain's house -- Analyst]

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pursue their individual affairs. Maibu made speeches in the evening men's circle or in the early morning, telling the men to plant their gardens or urging all to gather *piqui* fruit. Such proddings had little meaning, as they were usually made during the appropriate season for these activities, and most people would have planted or gathered as a matter of course.

Those who did not choose to do what Maibu suggested went their own way, whether it was to fish or sleep. Maibu was a gadfly; yet he was the conscience of the Trumaí. Perhaps more people would have procrastinated if it had not been for his admonitions. He was truly interested in the good of the village. He asked Quain for presents only for others, never for himself.

Cooperative work on the community level was usually organized by Maibu. The decision to perform such work was generally made by common agreement, but it was the chief's function to recruit the necessary labor and see that the task was done. This he did with varying degrees of success, for his power was limited.

The chief was accorded much more respect by his housemates and close kinsmen than by the rest of the villagers. The people resisted him in varying degrees, depending on their relationship to him and their individual personalities. His control over the women was particularly weak. When Quain first arrived, they refused to carry water for him, despite Maibu's orders. When they realized that they were to be given gifts for their trouble they grudgingly consented to do so, but, in the meantime, the chief had fetched the water, since the performance of such tasks for an outsider was the responsibility of the village as a whole, and no other man would do women's work.

Referring to the limitations on chiefly powers, Quain noted, "Maibu has to put up with a lot of booing and do a lot of talking. Obedience comes to him only after a long time. He seems to have no 'big stick.'" The Trumaí chief had no coercive power whatsoever. This particular headman was not a powerful shaman, although such a combination was possible and would undoubtedly have enhanced his position. The only act of a supernatural nature that he could perform was curing by sucking and blowing smoke, which was practiced by almost every adult Trumaí male.

Maibu was often completely ignored, and some of the men made a point of flouting his authority. The men of Aloari's house were extremely antagonistic toward him and told Quain that he was not a true "*aek*." These men rarely took part in the few group work projects and usually they were also absent from the wrestling matches. Their own prestige motives and individual inclinations brought them into frequent conflict with Maibu, both in his capacity as the man of highest status and as the village goad. Their resentment of authority never resulted in

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post-natal sexual taboos is a serious social problem. A large group of not very pretty bachelors must use the woman with ringworm or the Suyá captive, whose present marriage is considered dishonorable. These women have no brothers or fathers. In contrast with Karajá, there is no stylized homosexuality. Yet the complete freedom of sexual play results in activities which might be considered overt homosexuality. But to the Trumaí such activity has little emotional content. It does not seem to set up special personal relationships.

"Women are in constant fear of attack. Yet a wife tyrannizes her husband by withholding her favors and pulling the hair of anyone whom she suspects her husband has used sexually. Between married people, sex occurs at night — preferably when everyone else is asleep — or while going to the forest on various gathering tasks. A man and his wife engage in many things together, such as afternoon relaxation, fishing, and gardening. There is companionship even between those spouses among whom the wife is much older and no longer of interest to the man sexually.

"Between themselves, the men are extremely individualistic. Cooperation rarely exceeds kin limits even at the explicit order of the chief. Only when outsiders are present do men band together in a mock display of solid cooperation. . . . There is only one old man, who is about seventy — all others are under 45 ..... All death is murder. Nobody expects to live longer than the next rainy season. Men always carry bows and arrows for protection. Shamans keep the village in constant fear of attack from the Suyá or Kamayurá.... There are imaginary attacks quite often. Men gather in terror at the center of the village — the most exposed spot — and wait to be shot at from the dark bushes at the margin of the village. . . .

"Authority is lax. The patrilineally hereditary chief does no work and is a parasite on his household. He is self-conscious of the rank of his wife whose marriage has elevated her. He lounges in his hammock, but it is his duty to orate from the center of the village at night and sometimes in the morning, urging the men to undertake group projects. He is the only man who has the courage to be an executive. This contrasts with the Kamayurá where there are several chiefs who, uniquely in their culture, are shy and ashamed to speak and whose orders must be referred through special talkers. It also contrasts with the Karajá where the chief is the best worker .... When the season changes, the Trumaí chief urges the people to engage in the new work, which they would do anyway. An example of the complete independence of spirit is illustrated by the two brothers who would not help the brother-in-law of one build the house in which they all were living, because they thought the mosquitoes would be bad in that location during the rainy season. The brother-in-law built the tremendous house all by himself — the two brothers lived comfortably in it.